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(74) Agent: CROZIER, John, H.; 1934 Huntington Turnpike, Trumbull, CT 06611-5116 (US).

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(71) Applicant (for all designated States except US): ROSTRA TOOL-COMPANY [US/US]; 30 East Industrial Road, Branford, CT 06405-2922 (US).

(72) Inventor; and

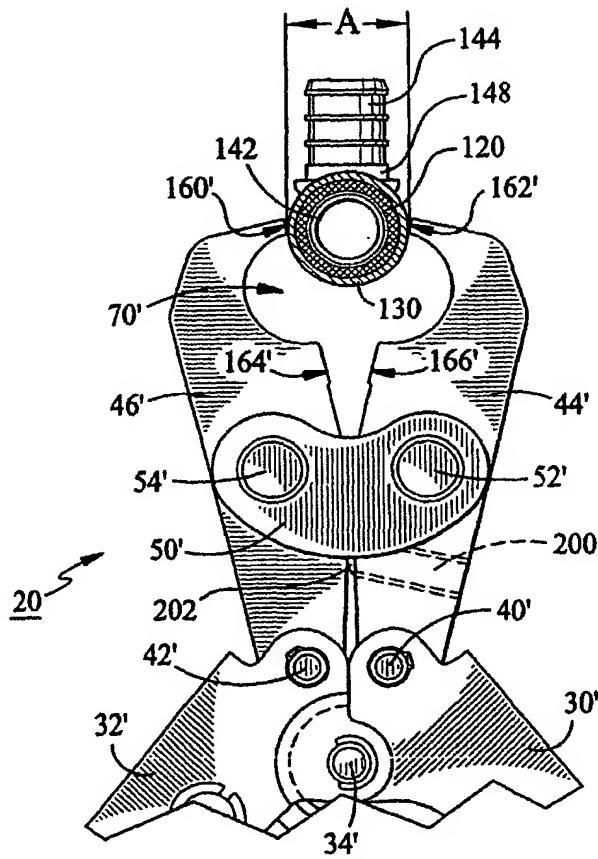
(75) Inventor/Applicant (for US only): STEINER, Richard, A. [US/US]; 71 Norwich Road, East Haddam, CT 06423 (US).

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[Continued on next page]

(54) Title: TOOTHLESS CRIMPING TOOL FOR PLASTIC PIPE CONNECTORS



(57) Abstract: In a preferred embodiment, a crimping tool (20) to crimp a cylindrical ring (130) about cylindrical plastic pipe (120), including: first and second handles (30, 32) operative to open and close first and second jaws (44, 46), respectively, pivotally attached, respectively, to proximal ends of the first and second handles and to each other; and the first and second jaws being toothless and defining therebetween, when the first and second jaws are closed, a cylindrical opening (70), the cylindrical opening to crimp the cylindrical ring about the cylindrical plastic pipe, and to produce a tight seal between the cylindrical plastic pipe and a cylindrical substrate over which the cylindrical plastic pipe is inserted. A method of using the crimping tool (20) is provided, as is using the crimping tool as a crimping gauge.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 72/409.19, 409.01; 29/237, 283.5, 517; 81/318, 326, 324

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document; with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,289,712 A (HAUGHIAN) 03 March 1994 (01.03.1994), see Figures 1 and 2.	1-4
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Y		6-15
X	US 3,688,553 A (DEMLER, Sr.) 05 September 1972, (05.09.1972), see Figures 9 and 11.	1-4, 6-8, 10, 11 and 13-15

		9
X	US 256,525 A (WHITING) 18 April 1882, (18.04.1882), see Figures 1-4.	1-4
X	US 2,327,650 A (KLEIN) 24 August 1943 (24.08.1943), see Figure 2.	1
X	US 6,289,712 A (BEETZ et al.) 18 September 2001 (18.09.2001), see Figure 1 and sentence bridging columns 6 and 7.	1-4
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Y		6-15
A	US 2,064,129 A (TEMPLE, JR) 15 December 1936 (15.12.1936), see Figure 1.	1-15

Further documents are listed in the continuation of Box C.

See patent family annex.

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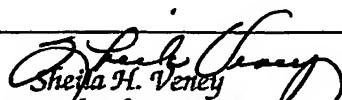
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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

Authorized officer

Daniel C Crane

Telephone No. 703-308-1078


Sheila H. Veney
Paralegal Specialist
Tech. Center 3700

INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2,102,325 A (KYLSTRA) 14 December 1937 (14.12.1937), see Figures 4-7.	1-15
A	US 2,861,489 A (BARNES) 25 November 1958 (25.11.1958), see Figures 1 and 3.	1-15
A	US 2,931,264 A (DALLMAN) 05 April 1960 (05.04.1960), see Figure 3.	1-15
A	US 3,859,837 A (BURROUGHS) 14 January 1975 (14.12.1975), see Figure 3.	1-15
A	US 4,116,037 A (HONEYCUTT) 26 September 1978 (26.09.1978), see Figure 3.	1-15
A	US 5,267,464 A (CLELAND) 07 December 1993 (07.12.1993), see Figure 2.	1-15